Attorney Docket No: BRI/016

## Amendments to the claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of Claims:

- 1. (currently amended) A pyrotechnic circuit breaker for use in an electrical circuit comprising:
  - a) an electrically conductive portion including means for secure incorporation of the portion into the electrical circuit, wherein said electrically conductive portion is a fuse or is formed to be readily ablated or cut;
    - b) a pyrotechnic igniter including an output end, said igniter secured so that said output end is oriented toward said electrically conductive portion;
    - c) a passage between said output end of said pyrotechnic igniter and said electrically conductive portion;
      [[and,]]
    - d) a rupture area adjacent said electrically conductive portion and on the opposite side of said electrically conductive portion from said pyrotechnic igniter output end;
    - e) a housing formed of polymer; and,

OCT.20 2005 9:39

Attorney Docket No: BRI/016

a projectile molded into said housing, between said pyrotechnic igniter and said electrically conductive portion;

wherein said electrically conductive portion is formed to be readily cut by said projectile.

- (original) The circuit breaker of claim 1, further comprising a housing, wherein said rupture area is defined in said housing.
- 3. (canceled)
- (original) The circuit breaker of claim 1, wherein said electrically conductive portion is a current load-based fuse.
- 5. (canceled)
- 6. (currently amended) The circuit breaker of claim 4 [[5]], wherein said fuse is a bolt-on fuse strip.
- (original) The circuit breaker of claim 1, wherein said electrically conductive portion is formed to receive a direct ablation force from the pyrotechnic igniter.
- (original) The circuit breaker of claim 7, wherein said electrically conductive portion includes an area that is

Attorney Docket No: BRI/016

flattened in a plane generally perpendicular to the output of said pyrotechnic igniter.

- 9. (original) The circuit breaker of claim 7, wherein said electrically conductive portion includes an enlarged impact area that is enlarged in a plane generally perpendicular to the output of said pyrotechnic igniter.
- 10. (original) The circuit breaker of claim 7, wherein said electrically conductive portion includes an area that is flattened and enlarged in a plane generally perpendicular to the output of said pyrotechnic igniter.
- (original) The circuit breaker of claim 8, wherein said electrically conductive portion is a current load-based fuse.
- (original) The circuit breaker of claim 11, wherein said fuse is a bolt-on fuse strip.
- 13. (canceled)
- 14. (canceled)
- 15. (currently amended) The circuit breaker of claim 1 [[13]], wherein said electrically conductive portion includes an enlarged impact area that is enlarged in a

Attorney Docket No: BRI/016

plane generally perpendicular to the output of said pyrotechnic igniter.

- 16. (currently amended) The circuit breaker of claim 1 [[13]], wherein said electrically conductive portion includes an area that is flattened in a plane generally perpendicular to the output of said pyrotechnic igniter.
- 17. (original) The circuit breaker of claim 16, wherein said electrically conductive portion is a current load-based fuse.
- 18. (currently amended) The circuit breaker of claim 1 [[13]], wherein said electrically conductive portion has a periphery, and said rupture area has a perimeter selected so as to minimize the clearance between said rupture area and said electrically conductive portion.
- 19. (original) The circuit breaker of claim 16, wherein said electrically conductive portion has a periphery, and said rupture area has a perimeter selected so as to minimize the clearance between said rupture area and said electrically conductive portion.
- 20. (currently amended) A pyrotechnic circuit breaker for use in an electrical circuit comprising:

Attorney Docket No: BRI/016

- a current load-based fuse including means for secure incorporation of the portion into the electrical circuit, said fuse being an integral single piece and having a uniform thickness;
- a pyrotechnic igniter including electrical leads and an output end, said igniter secured so that said output end is oriented toward said fuse;
- C) a passage between said output end of said pyrotechnic igniter and said fuse; and,
- d) a rupture area adjacent said fuse and on the opposite side of said fuse from said pyrotechnic igniter output end.
- 21. (currently amended) A pyrotechnic circuit breaker for use in an electrical circuit comprising:
  - an electrically conductive portion including means for secure incorporation of the portion into the electrical circuit, wherein said electrically conductive portion has an impact area and a periphery and is formed to receive a direct ablation force be-readily ablated or cut;
  - b) a pyrotechnic igniter including electrical leads and an output end, said igniter secured so that said output

**PATENT** Attorney Docket No: BRI/016

end is oriented toward said electrically conductive portion;

- c) a passage between said output end of said pyrotechnic igniter and said electrically conductive portion; and,
- d) a rupture area having a perimeter adjacent said electrically conductive portion and on the opposite side of said electrically conductive portion from said pyrotechnic igniter output end;

wherein said impact area is flattened and/or enlarged in a plane generally perpendicular to the output of said pyrotechnic igniter and said perimeter is selected to leave a minimal clearance between said rupture area and said periphery.

- 22. (currently amended) The circuit breaker of claim 21, wherein said electrically conductive portion is a current load-based fuse.
- 23. (new) The circuit breaker of claim 22, wherein said fuse is a bolt-on fuse strip.
- 24. (new) The circuit breaker of claim 21, wherein said electrically conductive portion has a narrowed region between said passage and said rupture area.

Attorney Docket No: BRI/016

- (new) The circuit breaker of claim 20, wherein said fuse is a bolt-on fuse strip.
- 26. (new) The circuit breaker of claim 20, wherein said fuse has a narrowed region between said passage and said rupture area.